

FIG. 16

FOUR-IN-ONE COPY PROCESSING START

S151 PAGE COUNTER <-0  
S152 ORIGINAL EXISTS ON ADF?  
S153 INCREMENT PAGE COUNTER  
S154 READ ORIGINAL ON ADF AT SCALING FACTOR OF 50%  
S155 PORTRAIT IMAGE?  
S156 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S157 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S158 PAGE COUNTER =4?  
S159 PRINT COMPLETE PRINT PAGE DATA  
S160 PAGE COUNTER <-0  
S161 NEXT ORIGINAL EXISTS?  
S162 NOT PRINTED PAGE EXISTS?  
S163 PRINT NOT PRINTED PAGE  
  
S200 INCREMENT PAGE COUNTER  
S201 PORTRAIT IMAGE?  
S202 READ ORIGINAL ON FB AT SCALING FACTOR OF 50% UNDER THE FOLLOWING CONDITIONS:  
    MAIN SCANNING DIRECTION: TOP TO BOTTOM  
    SUBSCANNING DIRECTION: LEFT TO RIGHT  
S203 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S204 READ ORIGINAL ON FB AT SCALING FACTOR OF 50% UNDER THE FOLLOWING CONDITIONS:  
    MAIN SCANNING DIRECTION: BOTTOM TO TOP  
    SUBSCANNING DIRECTION: RIGHT TO LEFT  
S205 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S206 PAGE COUNTER =4?  
S207 PRINT COMPLETE PRINT PAGE DATA  
S208 PAGE COUNTER <-0  
S209 PROMPT USER TO SET NEXT ORIGINAL

S210 NEXT ORIGINAL EXISTS?

S211 NOT PRINTED PAGE EXISTS?

S212 PRINT NOT PRINTED PAGE

END

FIG. 13

FOUR-IN-ONE COPY PROCESSING START

S151 PAGE COUNTER <-0  
S152 ORIGINAL EXISTS ON ADF?  
S153 INCREMENT PAGE COUNTER  
S154 READ ORIGINAL ON ADF AT SCALING FACTOR OF 50%  
S155 PORTRAIT IMAGE?  
S156 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S157 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S158 PAGE COUNTER =4?  
S159 PRINT COMPLETE PRINT PAGE DATA  
S160 PAGE COUNTER <-0  
S161 NEXT ORIGINAL EXISTS?  
S162 NOT PRINTED PAGE EXISTS?  
S163 PRINT NOT PRINTED PAGE  
S170 INCREMENT PAGE COUNTER  
S171 READ ORIGINAL ON FB AT SCALING FACTOR OF 50% WHILE INVERTING READ DATA IN A MAIN  
SCANNING DIRECTION  
S172 PORTRAIT IMAGE?  
S173 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S174 ROTATE IMAGE DATA 180° CLOCKWISE  
S175 FORM PREDETERMINED PORTION OF PRINT PAGE DATA  
S176 PAGE COUNTER =4?  
S177 PRINT COMPLETE PRINT PAGE DATA  
S178 PAGE COUNTER <-0  
S179 PROMPT USER TO SET NEXT ORIGINAL  
S180 NEXT ORIGINAL EXISTS?  
S181 NOT PRINTED PAGE EXISTS?  
S182 PRINT NOT PRINTED PAGE

END

FIG. 12

TWO-IN-ONE COPY PROCESSING START

S111 ORIGINAL EXISTS ON ADF?  
S112 READ ORIGINAL ON ADF AT SCALING FACTOR OF 66%  
S113 PORTRAIT IMAGE?  
S114 ROTATE IMAGE DATA 90° CLOCKWISE  
S115 ROTATE IMAGE DATA 90° COUNTERCLOCKWISE  
S116 EVEN-NUMBERED PAGE?  
S117 FORM LOWER HALF OF PRINT PAGE DATA  
S118 PRINT COMPLETE PRINT PAGE DATA  
S119 FORM UPPER HALF OF PRINT PAGE DATA  
S120 NEXT ORIGINAL EXISTS?  
S121 NOT PRINTED PAGE EXISTS?  
S122 PRINT NOT PRINTED PAGE  
  
S130 READ ORIGINAL ON FB AT SCALING FACTOR OF 66% WHILE INVERTING READ DATA IN A MAIN  
SCANNING DIRECTION  
S131 ROTATE IMAGE DATA 90° CLOCKWISE  
S132 EVEN-NUMBERED PAGE?  
S133 FORM LOWER HALF OF PRINT PAGE DATA  
S134 PRINT COMPLETE PRINT PAGE DATA  
S135 FORM UPPER HALF OF PRINT PAGE DATA  
S136 PROMPT USER TO SET NEXT ORIGINAL  
S137 NEXT ORIGINAL EXISTS?  
S138 NOT PRINTED PAGE EXISTS?  
S139 PRINT NOT PRINTED PAGE

END

FIG. 11

COPY START

S101 REQUEST USER TO SELECT COPY MODE AND ORIENTATION OF ORIGINAL

S102 SAVE COPY MODE AND ORIENTATION OF ORIGINAL

S103 TWO-IN-ONE COPY MODE?

S104 FOUR-IN-ONE COPY MODE?

S105 PERFORM NORMAL COPY PROCESSING

COPY END

S110 PERFORM TWO-IN-ONE COPY PROCESSING

COPY END

S150 PERFORM FOUR-IN-ONE COPY PROCESSING

COPY END

FIG. 5

3 IMAGE FORMATION APPARATUS

7 OPERATION PANEL

7a DISPLAY SECTION

11 READ HEAD

31 IMAGE SENSOR

71 CONTROLLER

71a READ CONTROL PART

71b MEMORY CONTROL PART

71g IMAGE FORMATION CONTROL PART

73 COVER SENSOR

75 ORIGINAL SUPPLY TRAY SENSOR

76a DRIVE CIRCUIT

76b DRIVE CIRCUIT

76c IMAGE FORMATION APPARATUS DRIVE CIRCUIT

79 READ HEAD STEPPING MOTOR

80 ADF STEPPING MOTOR